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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/30/2009

Quallion LLC P.O. Box 923127 Sylmar, CA 91392-3127 EXAMINER

HAN, KWANG S

ART UNIT PAPER NUMBER

1795 DATE MAILED: 04/30/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/810,080 03/25/2004 Bookeun Oh Q202-US1 8214

TITLE OF INVENTION: ELECTROLYTE FOR USE IN ELECTROCHEMICAL DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	07/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
Quallion LLC P.O. Box 92312 Sylmar, CA 913	7	/2009		State	reby certify that the es Postal Service we essed to the Mail	is Fee(vith suf . Stop	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g dep st cla abov	osited with the United ss mail in an envelope re, or being facsimile
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CC	ONFIRMATION NO.
10/810,080 TITLE OF INVENTION	03/25/2004 N: ELECTROLYTE FOR	USE IN ELECTROCHE	Bookeun Oh EMICAL DEVICES				Q202-US1		8214
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	YES	\$755	\$0		\$0		\$755		07/30/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		7				
HAN, K	WANG S	1795	429-188000						
"Fee Address" inc PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form	data will appear on the	single or a attor Il be p or typ he pag an a	rely, e firm (having as a gent) and the nam nneys or agents. If printed. e) ttent. If an assign assignment.	membes of uno name	er a 2 p to le is 3	ocum	ent has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🗖 Co	orporati	on or other private gro	oup e	ntity Government
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a. Applicant claim	tus (from status indicated as SMALL ENTITY state	us. See 37 CFR 1.27.		_	-		ΓΙΤΥ status. See 37 C		
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	ıan th	ne applicant; a regi	stered :	attorney or agent; or th	ie ass	ignee or other party in
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This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	d application form to the ions for reducing this bu /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection i depending upon the i chief Information O COMPLETED FORM	or restindive	etain a benefit by t imated to take 12 t idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	I by t ng gat me yo artme for P	he USPTO to process) hering, preparing, and ou require to complete ent of Commerce, P.O. atents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,080	03/25/2004	Bookeun Oh	Q202-US1	8214	
75	590 04/30/2009		EXAM	INER	
Quallion LLC			HAN, KWANG S		
P.O. Box 923127			ART UNIT	PAPER NUMBER	
Sylmar, CA 91392	-3127		1795		
		DATE MAILED: 04/30/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 989 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 989 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/810,080	OH ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Kwang Han	1795		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Applicant's argument 2. The allowed claim(s) is/are 1-8 and 10-74. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the:	ears on the cover sheet wat (OR REMAINS) CLOSED or other appropriate comming the complete shadow of the control of t	in this application. If not included nunication will be mailed in due cou subject to withdrawal from issue a	ırse. THIS	
1. Certified copies of the priority documents have				
2. Certified copies of the priority documents have			.	
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applicatior	from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached Exes reason(s) why the oath	(AMINER'S AMENDMENT or NOT		
5. CORRECTED DRAWINGS (as "replacement sheets") mus		(DTO 040)		
(a) ☐ including changes required by the Notice of Draftspers	•	ew (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	s Amendment / Comment o	the drawings in the front (not the ba	ck) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner'	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowa	nce	

Art Unit: 1795

ELECTROLYTE FOR USE IN ELECTROCHEMICAL DEVICES

Examiner: K. Han SN: 10/810,080 Art Unit: 1795 April 30, 2009

DETAILED ACTION

1. The Applicant's amendment filed on April 30, 2009 was received. Claim 9 was cancelled. Claims 1, 8, 14, 20, and 36 were amended. Claim 74 was added.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

3. Claims 1-8 and 10-74 are allowed. The restriction requirement for species election, as set forth in the Office action mailed on February 6, 2008 and April 4, 2008, has been reconsidered in view of the allowability of claims to the elected invention pursuant to MPEP § 821.04(a). The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim. Claims 2, 5, 6, 7, 12, 15-17, 19, 22, 23, and 35, directed to independent or distinct species are no longer withdrawn from consideration because the claim(s) requires all the limitations of an allowable claim.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present

application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

4. Claims 1-8, 10-43, and 73-74 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 44-72, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on February 6, 2008 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

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Claim Rejections - 35 USC § 112

5. The claim rejections under 35 U.S.C. 112, second paragraph, on claims 14 and 73 are withdrawn in view of Applicant's amendment to claim 14 and arguments.

Claim Rejections - 35 USC § 102

6. The claim rejections under 35 U.S.C. 102(b) as being anticipated by Spiegel et al. on claims 1, 8, 9, 20, 21, 26, 28, 29, 34, 42, and 43 are withdrawn, because independent claim 1 has been amended.

Claim Rejections - 35 USC § 103

- 7. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. in view of Kang et al. on claims 3 and 4 is withdrawn, because independent claim 1 has been amended.
- 8. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. in view of Okada on claims 10, 11, 13, and 18 is withdrawn, because independent claim 1 has been amended.
- 9. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. in view of Okada on claims 10, 11, 13, and 18 is withdrawn, because independent claim 1 has been amended.

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10. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. and Okada as applied to claims 10 and 18 and further in view of Amine et al. on claims 14 and 73 is withdrawn, because independent claim 1 has been amended.

- 11. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. as applied to claim 20 and further in view of Chaloner-Gill on claim 24 is withdrawn, because independent claim 1 has been amended.
- 12. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. as applied to claim 20 and further in view of Chaloner-Gill on claim 24 is withdrawn, because independent claim 1 has been amended.
- 13. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. as applied to claim 20 and further in view of Chaloner-Gill on claim 24 is withdrawn, because independent claim 1 has been amended.
- 14. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. and Chaloner-Gill as applied to claim 24 and further in view of Batzold on claim 25 is withdrawn, because independent claim 1 has been amended.

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15. The claim rejection under 35 U.S.C. 103(a) as unpatentable over Spiegel et al. as applied to claim 1 and further in view of Jow et al. on claims 27, 30, 31, 32, and 33 is withdrawn, because independent claim 1 has been amended.

Reasons for Allowance

16. Claims 1-8 and 10-74 are allowed. The invention of independent claims 1 and 44 recites a device and method of an electrochemical device comprising an electrolyte including one or more polysiloxanes, one or more alkali metal salts, and one or more silanes where the silane and the polysiloxane are included in different compounds and the silane includes at least one substituent that includes a poly(alkylene oxide) moiety. The close prior arts of record Spiegel et al. (US 6447952) do not teach the polysiloxane and the silane to be included in different compounds. The prior art of Bauer et al. (US 6642294) discloses a solid electrolyte mixture of various compositions in multiple embodiments but does not teach a specific electrolyte consisting of a silane, polysiloxane, and a alkali metal salt.

Contact/Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwang Han whose telephone number is (571) 270-5264. The examiner can normally be reached on Monday through Friday 8:00am to 5:00pm.

Application/Control Number: 10/810,080

Art Unit: 1795

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on (571) 272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. H./ Examiner, Art Unit 1795

/Dah-Wei D. Yuan/ Supervisory Patent Examiner, Art Unit 1795